DESCRIPTION

Three-component, 100% solids novolac epoxy floor resurfacer

PRINCIPAL CHARACTERISTICS

- Easy to apply, self-leveling
- Low odor
- Resists concentrated acids, caustics and some solvents
- Good resistance to thermal and mechanical shock
- High wear and chemical resistance
- Bonds to dry and damp concrete, wood, metal, tile, terrazzo and existing epoxy and urethane coatings
- Can be mixed with specially graded aggregates to create a slip resistant surface texture
- TYPICAL USES:
- Repair of pitted or lightly damaged concrete floors
- Suitable for areas with heavy traffic
- High corrosion areas
- Chemical plants
- Plating operations
- Paper and pulp mills

COLOR AND GLOSS LEVEL

- Gray, Red, Black
- Gloss

BASIC DATA AT 77°F (25°C)

Data for mixed product		
Number of components	Three	
Mass density	10.1 lb/US gal (1.2 kg/l)	
Volume solids	99% ± 2%	
VOC (Supplied)	EPA Method 24: 0.1 lb/US gal (9.0 g/l)	
Recommended dry film thickness	62.5 - 125.0 mils (1587 – 3175 μm) per coat	
Theoretical spreading rate	12.5 ft²/US gal for 125.0 mils (0.3 m²/l for 3175 μm) 25 ft²/US gal for 62.5 mils (0.6 m²/l for 1588 μm)	
Dry to touch	16 hours	
Dry to walk on	30 hours	
Full cure after	7 days	
Shelf life	Part A: at least 12 months when stored cool and dry Part B: at least 12 months when stored cool and dry Part C: at least 12 months when stored cool and dry	



Notes:

- Material should be stored in dry conditions, out of direct sunlight, in unopened original factory containers, at temperatures above 50°F (10°C) and below 100°F (38°C)
- Full cure after reflects maximum hardness and chemical resistance at 77°F (25°C)

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Concrete

- All surfaces must be sound, clean, free of oil, grease, dirt, mildew, curing compounds, loose and flaking paint, and other foreign substances
- New concrete must cure a minimum of 28 days prior to application of this product
- Prepare in accordance with SSPC SP-13 guidelines
- Concrete pH must be 7.0 or higher
- Cracks 1/8" (3175 μm) wide or greater, pour joints, and construction joints must be cleaned and filled with PPG Joint Fillers or Sealants
- Patch all holes over ½" (1.3 cm) deep with PPG Quick Mender X.O. before applying product
- Concrete surfaces must be primed with PPG Flooring[™] 912 LV Primer before applying product.

SYSTEM SPECIFICATION

• Expansion joints, control joints, and moving cracks should be filled with appropriate sealant or filler

Chemical Resistances

- 98% sulfuric acid
- 85% phosphoric acid
- 30% chromic
- 20% acetic acid
- 50% sodium hydroxide
- 26% ammonium hydroxide
- Most oils and greases

Notes:

- A more complete list of chemical resistances is available by request from PPG PMC Technical Services.
- To maximize service life, chemical splash and spills should be cleaned promptly

INSTRUCTIONS FOR USE

Mixing Instructions

- Mixing ratio by volume Part A : Part B = 2.2 : 1
- Mixing ratio by volume Part C Fill : Mixed A&B = 1 : 1.1
- Product components are pre-packaged in proper ratio
- Mix the three components together in the prescribed ratio using a low speed jiffy-style mixer until uniform color and consistency



Application

- On concrete surfaces, first apply PPG Flooring 912 LV primer and allow to dry tack free.
- Apply with gauge rake, notched rubber squeegee or steel trowel. Use porcupine roller to help level the floor and for avoiding air entrapment
- Product working time is 75 minutes at 50°F (10°C)
- Product working time is 60 minutes at 77°F (25°C)
- Product working time is 45 minutes at 90°F (32°C)
- Installed at thickness of 1/16" (1587 μm) to 1/8" (3175 μm)
- If a slip-resistant surface is desired, apply a top coat of PPG NOVAGUARD® 5041 and broadcast in silica sand.

Notes:

- Do not apply below 50°F (10°C)
- Do not apply at less than 60 mils (1524 μm) per coat
- Do not apply on a floor sloped > 1/8 in. per ft. (10.4 mm per meter)
- Do not apply in severe thermal shock environment

Pot life

50 minutes at 77°F (25°C)

Note:

- See ADDITIONAL DATA - Pot life

ADDITIONAL DATA

Physical data of cured material		
Characteristic	Value	
Tensile Strength (ASTM C307)	2305 psi (15.9 MPa)	
Tensile Elongation (ASTM D638)	14%	
Compressive strength (ASTM C579)	6940 psi (47.8 MPa)	
Flexural Strength (ASTM C580)	3670 psi (25.3 MPa)	
Hardness, Shore D (ASTM D2240)	80	
Taber Abrasion (ASTM D4060, CS-17 Wheel, 1 kg load, 1,000 cycles)	110 mg loss	
Impact Strength	120 in/lb (672.0 cm/kg)	
Flammability (ASTM D-635)	Self-extinguising	
Water Absorption (ASTM D570)	0.2% in 24 hours	
Coefficient of Thermal Expansion (D696)	1.7x10-5 per °F	



Curing time with standard hardener				
Substrate temperature	Resistant to vehicular service	Dry to walk on	Dry to touch	
50°F (10°C)	75 hours	64 hours	30 hours	
77°F (25°C)	36 hours	30 hours	16 hours	
90°F (32°C)	18 hours	12 hours	8 hours	

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
50°F (10°C)	60 minutes	
77°F (25°C)	50 minutes	
90°F (32°C)	25 minutes	

DISCLAIMER

- · For industrial or professional use only
- This product is specifically suitable for use on the substrates mentioned in this document. For application on any other substrates, please always contact your distributor or PMC representative for specific instructions and in order to make sure that the product performance can be safeguarded.

SAFETY PRECAUTIONS

• Read all label and Safety Data Sheet (SDS) information prior to use

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective & Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

REFERENCES

• Information sheet | Explanation of product data sheets

WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shell life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.



LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.

